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DATE MAILED: 02/25/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

30873 7590 022522009

DORSEY & WHITNEY LLP

INTELLECTUAL PROPERTY DEPARTMENT
250 PARK AVENUE

NEW YORK, NY 10177

EXAMINER					
TURNER, SAMUEL A					
ART UNIT	PAPER NUMBER				
2877					

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,735	09/29/2005	Guillermo J. Tearney	036217/US/2-475387-00191	6550
TITLE OF INVENTION:	SPECKLE REDUCTION	IN OPTICAL COHERENCE TOMOGRAPHY BY PAT	H LENGTH ENCODED A	NGULAR

COMPOUNDING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used f correspondence includir d below or directed oth ions.	or tran g the erwise	smitting the ISSU Patent, advance or in Block 1, by (a							
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers, Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
250 PARK AVE	L PROPERTY DE NUE		TMENT			Cer	tificate	of Mailing or Trans i) Transmittal is being ficient postage for fire ISSUE FEE address I) 273-2885, on the d	mission deposited t class ma above, or ate indicat	I with the United il in an envelope being facsimile ed below.
NEW YORK, N	Y 10177			[(Depositor's name)
										(Signature)
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10/551,735	09/29/2005			Guillermo J. Tearne	y	(36217/	US/2-475387-00191		6550
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nonprovisional	NO		\$1510	\$300		\$0		\$1810	C	05/26/2009
EXAM	INER		ART UNIT	CLASS-SUBCLASS						
TURNER, S.	AMUEL A		2877	356-479000	_					
"Fee Address" indi PTO/SB/47; Rev 03-0; Number is required. 3. ASSIGNEE NAME AT	ondence address (or Cha //122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident n in 37 CFR 3.11. Comp	nge of 'Indica ed. Usa	Correspondence ation form of a Customer E PRINTED ON T		ngle or ag attor be p type e par an a	3 registered pater ely, firm (having as a gent) and the namencys or agents. If brinted.	memb es of uj no nam	er a 2		as been filed for
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):	0	Individual 🚨 Co	orporati	on or other private gro	up entity	Government
Advance Order - #	o small entity discount p		ed)	o. Payment of Fee(s): (I A check is enclose Payment by credit The Director is her overpayment, to D	d. card	I. Form PTO-2038 authorized to cha	is atta	ched. required fee(s), any de	ficiency, o	
	SMALL ENTITY state	s. See	37 CFR I.27.	b. Applicant is no						
NOTE: The Issue Fee and interest as shown by the r	Publication Fee (if requeended of the United Sta	iired) v tes Pat	vill not be accepted ent and Trademark	office.	an th	e applicant; a regi	stered a	ittorney or agent; or th	e assignee	or other party in
Authorized Signature						Date				
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This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.3 U.S.C. USPT den, sl NOT	11. The information 122 and 37 CFR O. Time will vary nould be sent to the SEND FEES OR O	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or re esti- divi- ficer TO	tain a benefit by t mated to take 12 dual case. Any c ; U.S. Patent and THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, includir s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	by the US g gatherin ne you rec artment of or Patents	SPTO to process) g, preparing, and puire to complete Commerce, P.O. s, P.O. Box 1450,

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DORSEY & WI	HITNEY LLP		TURNER, S	AMUEL A
	PROPERTY DEPAR	PMENT	ART UNIT	PAPER NUMBER
250 PARK AVEN	UE		2877	

NEW YORK, NY 10177

DATE MAILED: 02/25/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 70 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 70 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Application No. Applicant(s) 10/551,735 TEARNEY ET AL. Notice of Allowability Examiner Art Unit SAMUEL A TURNER 2877 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the amendment filed 7 November 2008. The allowed claim(s) is/are 1,4,6-15,18-20,23,24 and 27-42. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s)

U.S. Patent and	Trademark Offic
PTOI -37 (R	ev 08-06)

1. | Notice of References Cited (PTO-892)

of Biological Material

2. Notice of Draftperson's Patent Drawing Review (PTO-948)

Information Disclosure Statements (PTO/SB/08).

Paper No./Mail Date 7/10/08, 11/7/08
4. ☐ Examiner's Comment Regarding Requirement for Deposit

5. Notice of Informal Patent Application

7.

Examiner's Amendment/Comment

8. X Examiner's Statement of Reasons for Allowance

 Interview Summary (PTO-413), Paper No./Mail Date .

9. ☐ Other .

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DETAILED ACTION

Information Disclosure Statement

The information disclosure statement(s) submitted on 10 July 2008 and 7 November 2008 have been considered by the Examiner.

Allowable Subject Matter

Applicant's response filed 7 November 2008 has been fully considered and is persuasive. Claims 1, 4, 6·15, 18·20, 23, 24, and 27-42 are allowed in view of the prior art of record.

Claim Rejections - 35 USC § 112, second paragraph

Applicant's amendment has overcome the rejection of claim 20 under 35 U.S.C. \S 112, second paragraph. See page 13 of Applicant's remarks.

Claim Rejections - 35 USC § 102

Applicant's arguments with respect to claims 12 and 13 rejected under 35 U.S.C. § 102(b) as anticipated by Waelti et al(WO 01/38820) have been considered and found persuasive. See pages 14-18 of Applicant's remarks. At column 6, lines 45-51 of the Waelti et al translation(6,806,963) defines the first path 11-31-35-33-36-32-37 as substantially equal to the second path 11-31-34-32-39. The delay in the first path compared to second path would also be substantially zero.

Claim Rejections - 35 USC § 103

Applicant's arguments with respect to claims 14, 15, and 18-20 rejected under 35 U.S.C. § 103(a) as unpatentable over Waelti et al(WO 01/38820) have been

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considered and found persuasive. See pages 18-20 of Applicant's remarks. In Waelti et al the arrangement(29) in the sample arm does include a path length difference but fails to produce a path length delay between the two radiations because they travel equal path lengths.

The following is an examiner's statement of reasons for allowance:

With regard to claims 1, 4, 6-11, 23, 24, 27-31, and 37-42; see the Examiner's statement of allowable subject matter in the non-final rejection dated 17 December 2007.

With regard to claim 12, the prior art of record fails to teach wherein the delay of a path of the first radiation compared to a path of the second radiation is at least 500 µm in air; in combination with the remaining limitations of claim 12. Claim 13 is dependent from claim 12 and therefor also includes the allowed subject matter.

With regard to claim 14, the prior art of record fails to teach a sample arm receiving the electromagnetic radiation, the sample arm including an arrangement which is configured to produce at least two radiations from the electromagnetic radiation so as to irradiate the sample, and to delay a first radiation of the at least two radiations with respect to a second radiation of the at least two radiations, wherein the arrangement has at least one of: a first optical section with a refractive index of at least 1.5, the first section being structured to propagate the at least two radiations, a second section which has silicon, the second section being structured to

propagate the at least two radiations; in combination with the remaining limitations of claim 14. Claims 15, and 18-20 are dependent from claim 14 and therefor also include the allowed subject matter.

With regard to claim 32, the prior art of record fails to teach a third arrangement configured to generate data corresponding to an amount of a ranging depth within the sample associated with the second arrangement, wherein a difference between the path lengths of the first and second radiations is equal or greater than the ranging depth; in combination with the remaining limitations of claim 32. Claims 33-36 are dependent from claim 32 and therefor also include the allowed subject matter.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel A. Turner whose phone number is 571-272-2432.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr., can be reached on 571-272-2800 ext. 77.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EEC) at 866-217-9197 (toll-free).

/Samuel A. Turner/ Primary Examiner Art Unit, 2877